



CONSTRUCTION EQUIPMENT

VOLVO A40G 342374 - DIESEL ENGINE



Sample No: VCP396997
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP396997	VCP441993	VCP441996	VCP445793
Sample Date	11 Mar 2024	05 Feb 2024	19 Dec 2023	06 Dec 2023
Machine Hours	11321	11098	10915	10857
Oil Hours	223	183	58	273
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	12.9	12.7
Base Number (BN)	mg KOH/g	9.4	9.3	8.8	7.4
Oxidation (PA)	%	74	70	67	68



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	54	52	51	65
Sulfation (PA)	%	58	57	55	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	6	6
Sodium	ppm	9	7	7	37
Potassium	ppm	6	8	7	29



WEAR METALS

Iron	ppm	7	5	4	12
Copper	ppm	<1	1	<1	2
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	2	2	2	5
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	57	64	73	95
Nickel	ppm	<1	<1	2	▲ 14
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1746	1497	1401	1508
Magnesium	ppm	566	521	534	620
Zinc	ppm	957	853	826	938
Phosphorus	ppm	839	795	757	757
Barium	ppm	0	12	12	0
Boron	ppm	69	85	98	99

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: SCHGRE
Unique No: 10937553
Signed: Wes Davis
Report Date: 21 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS

